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Selected Publications, by subject:**Antimicrobial resistance:**

Smith DL, Harris AD, Johnson JA, Silbergeld EK, Morris JG. 2002. Animal antibiotic use has an early but important impact on the emergence of antibiotic resistance in human commensal bacteria. *Proceedings of the National Academy of Sciences, USA* 99(9):6434-6439.

Harris AD, Smith D, Johnson JA, Bradham DD, Roghmann MC. 2002. Risk factors for imipenem-resistant *Pseudomonas aeruginosa* among hospitalized patients. *Clinical Infectious Diseases* 34(3):340-345.

Smith DL, Johnson JA, Harris AD, Furuno JP, Perencevich EN, Morris JG. 2003. Assessing risks for a pre-emergent pathogen: virginiamycin use and the emergence of streptogramin resistance in *Enterococcus faecium*. *The Lancet, Infectious Disease* 3(4):241-249.

Smith DL, Dushoff J, Perencevich EN, Harris AD, Levin SA. 2004. Persistent colonization and the spread of antibiotic resistance in nosocomial pathogens: Resistance is a regional problem. *Proceedings of the National Academy of Sciences, USA* 101(10):3709-3714.

Harris AD, Nemoy L, Johnson JA, Martin-Carnahan A, Smith DL, Standiford H, Perencevich EN. 2004. Co-carriage rates of vancomycin-resistant *Enterococcus* and extended-spectrum beta-Lactamase-producing bacteria among a cohort of ICU patients: Implications for an active surveillance program. *Infection Control & Hospital Epidemiology* 25(2):105-108.

Perencevich EN, Fisman DN, Lipsitch M, Harris AD, Morris JG, Smith DL. 2004. Projected benefits of active surveillance for vancomycin resistant enterococcus in ICU settings. *Clinical Infectious Diseases* 38(8):1108-1115.

Kelly LA, Smith DL, Snary EL, Johnson JA, Harris AD, Wooldridge M, Morris JG. 2004. Animal growth promoters: To ban or not to ban? *International Journal of Antimicrobial Agents* 24(3):205-212.

Smith DL, Laxminarayan R, Levin SA. Optimal infection control in multi-institution epidemics of antibiotic resistance. *Proceedings of the National Academy of Sciences, U.S.A.* To appear.

Smith DL, Dushoff J, Morris JG. Epidemiological complexity and agricultural antibiotic policy. *Public Library of Science Medicine*. Accepted.

Rabies:

Smith DL, Lucey B, Waller LA, Childs JE, Real LA. 2002. Predicting the spatial dynamics of rabies epidemics on heterogeneous landscapes. *Proceedings of the National Academy of Sciences, USA* 99(6):3668-3672.

Lucey BT, Russell CA, Smith D, Wilson ML, Long A, Waller LA, Childs JE, Real LA. 2002. Spatiotemporal analysis of epizootic raccoon rabies propagation in Connecticut, 1991-1995. *Vector Borne & Zoonotic Diseases* 2(2):77-86.

- Waller LA, Smith D, Childs JE, Real LA. 2003. Monte Carlo assessments of goodness-of-fit for ecological simulation models. *Ecological Modelling* 164:49-63.
- Russell CA, Smith DL, Waller LA, Childs JE, Real LA. 2004. A priori prediction of disease invasion dynamics in a novel environment. *Proceedings of the Royal Society of London, B, Biological Sciences* 271(1534):21-25.
- Real LA, Russell CA, Smith DL, Childs JE. Spatial dynamics and molecular ecology of North American rabies. *Journal of Heredity*. To appear.
- Smith DL, Russell CA, Waller LA, Childs JE, Real LA. Assessing the role of long-distance translocation and spatial heterogeneity in the raccoon rabies epidemic in Connecticut. *Journal of Preventive Veterinary Medicine*. To appear.
- Russell CA, Smith DL, Childs JE, Real LA. Predictive spatial dynamics and strategic planning for raccoon rabies emergence in Ohio. *Public Library of Science Biology*. Accepted.

Malaria:

- Smith DL, McKenzie FE. 2004. Statics and dynamics of malaria infection in *Anopheles* mosquitoes. *Malaria Journal* 3(1):13.
- Feng Z, Smith DL, McKenzie FE, and Levin SA. 2004. Coupling ecology and evolution: malaria and the S-gene across time scales. *Mathematical Biosciences* 189(1):1-19.
- Smith DL, Dushoff J, McKenzie FE. 2004. The risk of a mosquito-borne infection in a heterogeneous environment. *Public Library of Science, Biology* 2(11):1957-1964 | e368.

Other:

- Smith DL, Ericson L, Burdon JJ. 2003. Epidemiological patterns at multiple spatial scales; an 11-year study of a *Triphragmium ulmariae* - *Filipendula ulmaria* metapopulation. *Journal of Ecology* 91:890-903.
- Garg P, Aydanian A, Smith DL, Morris JG, Johnson JA, Nair GB, Stine OC. 2003. Molecular epidemiology of O139 *Vibrio cholerae*: mutation, lateral gene transfer & founder flush. *Emerging Infectious Diseases* 9(7):810-814.
- Hartley DM, Smith DL. 2003. Uncertainty in SARS epidemiology. *The Lancet* 362(9378):170-171.
- Smith KF, Dobson AP, McKenzie FE, Real LA, Smith DL, Wilson ML. Ecological theory to enhance infectious disease control and public health policy. *Frontiers in Ecology*. To appear.
- Smith DL. Spatial heterogeneity in epidemiology. In *Ecosystem Function in Heterogeneous Landscapes*, Proceedings of the 10th Cary Conference, Institute for Ecosystem Studies, Milbrook, New York, May 1, 2003. To appear.